Amir Agassi

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Education

Wilfrid Laurier University   2022 – 2026
BSc Computer Science   Waterloo, ON

Western Governors University   Sept. 2024 – Feb. 2025
Accelerated BSc Cybersecurity & Information Assurance   Remote

Certifications

AWS Solutions Architect - Professional, Google Cloud Professional Data Engineer, ITIL 4 - IT Service Management, CompTIA (A+, Network+, Security+, CySA+, PenTest+, Project+), Linux Essentials 010 (Perfect Score)

Experience

Shopify   January 2025 – August 2025
Software Engineer Intern | Kotlin, Python, Kafka, Airflow, Dataflow, dbt, ClickHouse, SQL   Toronto, ON
- Developed and deployed scalable data ingestion services using **Kafka** and **Dataflow**, implementing custom monitoring and alerting to maintain a **99.999% uptime** guarantee for pipelines processing up to **967,000 events/sec**.
- Engineered **98 dbt models** to transform raw event data into aggregated datasets for merchant analytics, optimizing **ClickHouse** query performance by over **40%** through materialized views and schema redesign.

Konfer   July 2024 – Present
Software Engineer | Go, React, TypeScript, AWS   Waterloo, ON
- Drove the startup's engineering vision and strategy, powering our **7+ high-impact events annually** and hosting up to **1100+ people** through our **white-label hackathons and tech mixers.**
- Developed a reusable white-label hackathon dashboard, handling over **6,000+** applications across **5+ events** and reducing the deployment time for new client events **from weeks to days.**

Civiconnect   September 2024 – December 2024
Web Development Associate | Figma, React, Supabase, TypeScript   Remote
- Collaborated with the Web Development Team to design, develop, and maintain web applications for small to mid-sized businesses, contributing to **3+ client projects** using **Figma, React, and Supabase**.

Sterling Karamar Property Management   July 2021 – August 2022
Software Developer Intern | SQL, Python   Toronto, ON
- Built and maintained large-scale reporting and automation tools for over **85+ corporate real estate clients**, reducing monthly report creation time by **up to 95%**.

Projects

SPUR IC OnBoard | *Go, React, Docker, PostgreSQL*
- Developed a digital platform to manage the startup lifecycle from on-boarding to funding.
- Scaled to **200–400** applicants and investments of **$1M–5M** in startup funding processed annually.

Danghui-cLVM | *C, C++*
- Architected a custom Roblox Lua virtual machine, dynamically translating opcodes to execute arbitrary code.
- Reverse-engineered the game client's internal Lua functions to build a compatible execution engine, enabling arbitrary script execution for over **37.1 million** daily active users.

Technical Skills

Languages: Python, Go, Kotlin, TypeScript, JavaScript, Ruby, Java, C++, C, SQL, Bash
Technologies: React, Kafka, Airflow, Dataflow, dbt, ClickHouse, AWS, GCP, Docker, Linux, Supabase, MySQL, PostgreSQL
Concepts: Backend Development, Data Engineering, Distributed Systems, Cloud Architecture, Scalability, Microservices, ETL Development, Data Modeling, Infrastructure, CI/CD, DevOps, Concurrency, Networking, Cybersecurity, Databases, REST API